

**To:** McDonald, Jeffrey[mcdonald.jeffrey@epa.gov]; Bates, William[bates.william@epa.gov]; Kobelski, Bruce[Kobelski.Bruce@epa.gov]; Smith, Robert-Eu[Smith.Robert-Eu@epa.gov]; Tiago, Joseph[Tiago.Joseph@epa.gov]; Bayer, MaryRose[Bayer.MaryRose@epa.gov]  
**Cc:** Robin, George[Robin.George@epa.gov]  
**From:** Robin, George  
**Sent:** Tue 6/28/2016 3:23:14 PM  
**Subject:** RE: USDWs in CA and oil/gas

Hi Jeff,

Actually, I do not know the particulars of how Stanford came to this assessment. It certainly must overlap to some extent. According to the journalist, the study and results were probably indeed spurred by the DOGGR's ongoing Aquifer Exemption examination efforts... and the drought.

This gross assessment is not such a "surprise" as, over 25 years ago, to my "surprise" (well, with my first permit, everything was a "surprise"), an UIC operator encountered a USDW over 5,000 ft deep, then proceeded to below 8,000 ft deep to complete. That was however located very close to basement and got me introduced to some folks at HQ and later got me introduced to LLNL, etc. regarding injection induced seismicity.

There are deep USDWs in Ca.

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**From:** McDonald, Jeffrey

**Sent:** Tuesday, June 28, 2016 7:10 AM

**To:** Bates, William <bates.william@epa.gov>; Kobelski, Bruce <Kobelski.Bruce@epa.gov>;  
Smith, Robert-Eu <Smith.Robert-Eu@epa.gov>; Tiago, Joseph <Tiago.Joseph@epa.gov>;  
Bayer, MaryRose <Bayer.MaryRose@epa.gov>; Robin, George <Robin.George@epa.gov>

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[http://www.eurekalert.org/pub\\_releases/2016-06/ssoe-ssf062216.php](http://www.eurekalert.org/pub_releases/2016-06/ssoe-ssf062216.php)

Is this an overlap of aquifer exemption issues in CA?

Jeffrey R. McDonald, Geologist

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